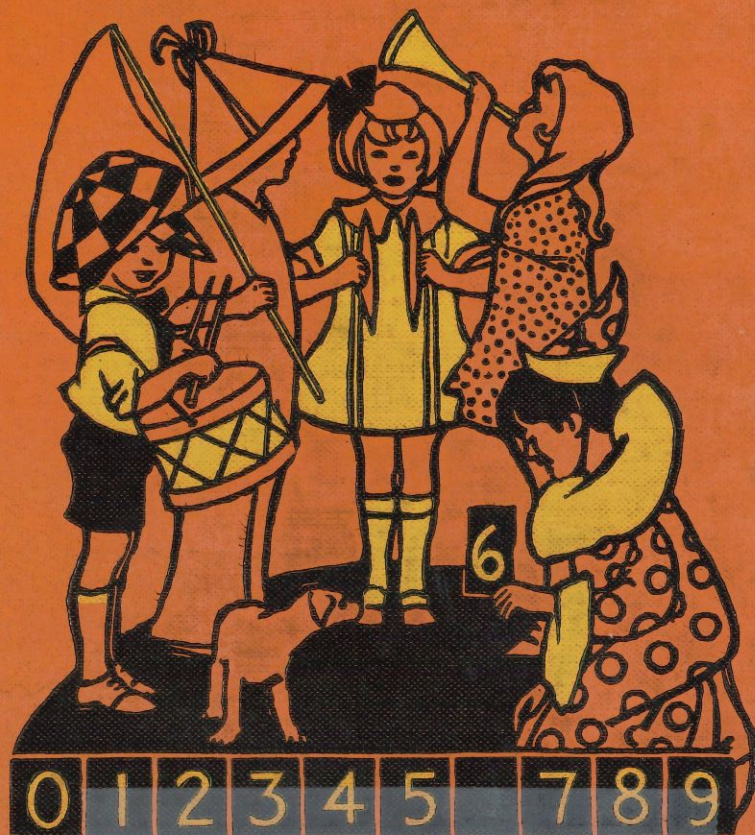


Fun With Numbers



Second Half of Book

Richard Parsons



59



NELL HUNT

Fun With Numbers

By

Joseph C. Brown

Helen Cook Mirick

J. Freeman Guy

And

Albert C. Eldredge



Illustrations By
Nell E. Hukle



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Preface

This book introduces, informally, the meanings and uses of numbers as they occur in the work and play of young children, and it lays a proper foundation for the arithmetic that is to follow.

Spontaneous interest in real life situations and a normal child's delight in working with numbers are among the chief motivating factors in stimulating and fostering good attitudes and habits in primary arithmetic. These factors are fully utilized in this book.

Some of the significant features of the book are:

1. An interesting and thoroughly sound beginning course, shaped by the results of recent scientific research and by worthwhile trends in the teaching of arithmetic.
2. Unusual emphasis upon activities and experiences of children.
3. Excepting the preface, the table of contents, and the index, a book written in language so simple that second grade children will find every word of it easy to read and understand.
4. Only real problems of children — interesting, challenging and carefully graded. (The natural approach to problem solving will be welcomed by teachers who are familiar with the recent studies in this field.)
5. Introduction of new ideas in the most desirable sequence and through normal situations in which the need for the ideas is apparent to the child.
6. Careful presentations, in number stories, of new topics to assure understanding, followed by number stories and abstract drills planned to fix and maintain the ideas and skills.
7. Addition and subtraction introduced separately. (The

psychology of learning and the reported experiences of scores of efficient classroom teachers convince the authors that the meanings of these processes are understood more readily by the child when introduced in that way.)

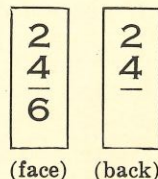
8. A very gradual introduction of the addition and subtraction facts. (In the applications following the introduction of facts, drill is distributed according to the relative difficulty of the facts and the repetition necessary for maintaining skills.)

9. Measurements taught as the child needs them in purposeful activities, and provision for intelligent use of the measurements later in the book.

10. Artistic illustrations that suggest child activities, that help the pupil to visualize the number stories, and that add to the genuine charm of the book.

STUDY AND FLASH CARDS

To provide for individual needs in drill and testing, a card, as illustrated, is recommended for each fact. The face side of the card is for study; then, by arranging the cards face down and by showing the child the back of a card, the teacher or another pupil may test him. If the child makes a mistake he should be shown the answer at once, but the card should be put on the "missed" pile to be studied more intensely later.



THE AUTHORS.

Acknowledgments

The authors gratefully acknowledge their indebtedness to Rosamond Losh and Ruth Mary Weeks for permission to use "The Duck Family," from *Primary Number Projects* (Houghton Mifflin Co.), and to the many teachers and supervisors who have originated and tested in practice some of the worthwhile ideas in this text.

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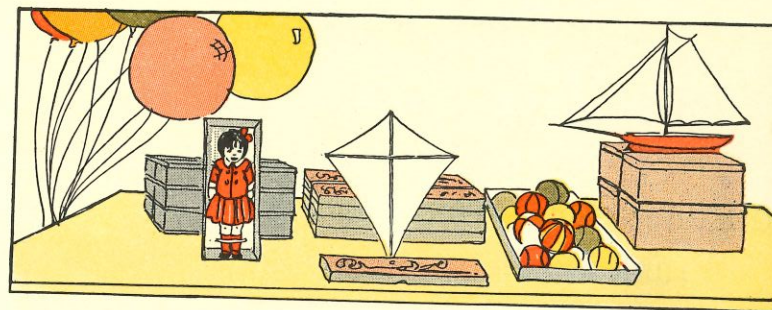
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Fun With Numbers

Second Half of Book

Continues from first half
of the same book.



Each toy on this table costs 10¢.

Two boats cost two dimes or 20¢.

Three dolls cost three dimes or ____¢.

Four balls cost ____ dimes or ____¢.

Five kites cost ____ dimes or ____¢.

Seven balloons cost ____ dimes or ____¢.

30¢ = ____ dimes. 90¢ = ____ dimes.

50¢ = ____ dimes. 40¢ = ____ dimes.

20¢ = ____ dimes. 80¢ = ____ dimes.

60¢ = ____ dimes. 70¢ = ____ dimes.

Write these on your paper :

Forty cents = 40¢. Ninety cents = ____¢.

Sixty cents = ____¢. Seventy cents = ____¢.

Twenty cents = ____¢. Thirty cents = ____¢.

Eighty cents = ____¢. Fifty cents = ____¢.

Teen Numbers

Tom bought a pad and pencil for 15¢.

Sara had a dime and 3 pennies or thirteen cents. Thirteen cents = 13¢.

Frank is 8 years old and his brother is 18.

The numbers from eleven to twenty are written in this way:

eleven	twelve	thirteen	fourteen
11	12	13	14
fifteen	sixteen	seventeen	eighteen
15	16	17	18
	nineteen	twenty	
	19	20	

Read aloud the number names above.

11¢ = 1 dime and 1 penny. $10¢ + 1¢ = 11¢$.

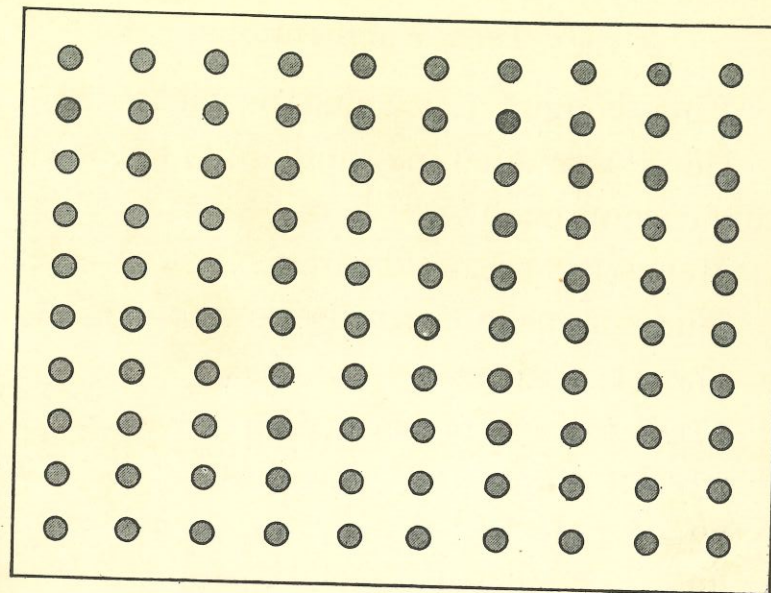
11 = 1 ten and 1 one. $10 + 1 = 11$.

12¢ = ___ dime and ___ pennies. $10¢ + \_\_¢ = 12¢$.

12 = ___ ten and ___ ones. $10 + \_\_ = 12$.

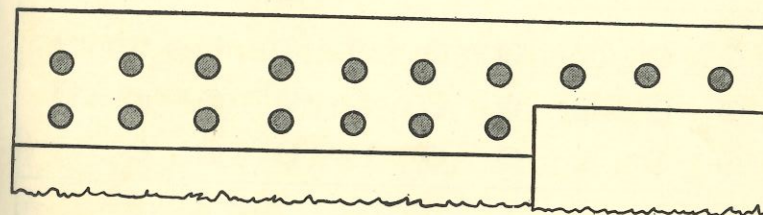
19¢ = ___ dime and ___ pennies. $\_\_¢ + 9¢ = 19¢$.

19 = ___ ten and ___ ones. $10 + \_\_ = 19$.



How many dots are in each row above?

Jo has a chart like the one above. With two pieces of paper she is showing 17.



Jo used 1 row and ___ dots to show 17.

Try to show 14 on the big chart above.

Show 18, 11, 15, 19, 10, 20, 16, 4, 8.

Other Two Place Numbers

Walter spent 68¢ at the circus.
Dorothy and her mother drove 87 miles
in their automobile.

Morgan weighs 45 pounds.

There are 36 boys and girls in our class.

17¢ = 1 dime and 7 pennies.

17 = 1 ten and 7 ones. $17 = 10 + 7$.

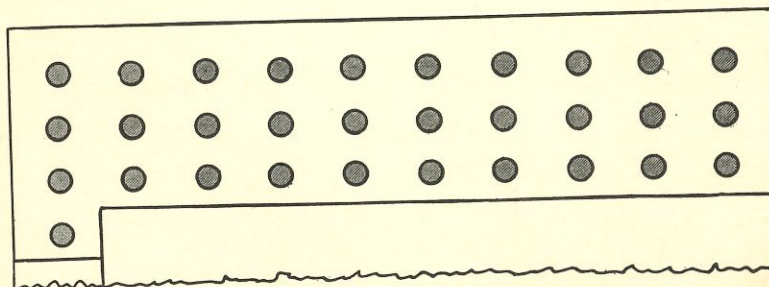
32¢ = 3 dimes and 2 pennies.

32 = 3 tens and 2 ones, or thirty + two.

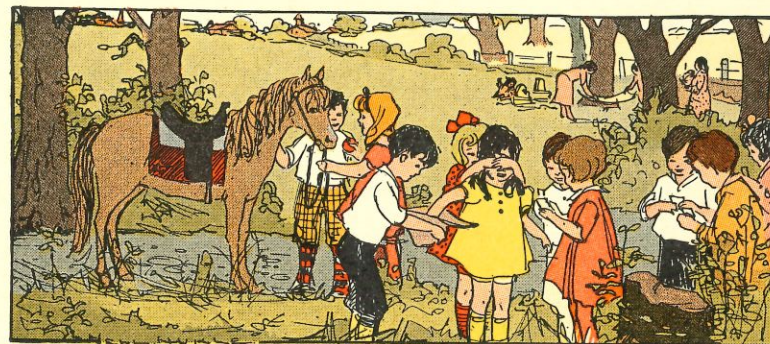
48¢ = ____ dimes and ____ pennies.

48 = ____ tens and ____ ones, or forty +
eight. $48 = 40 + 8$.

Jane is showing 31 on this chart.



On page 87, show 57, 86, 42, 38, 59, 98,
33, 50, 64, 75, 26, 66, and 80.



Tad is going to let some of the boys
and girls at the picnic ride on his pony.
Each one wants to ride first.

Tad and Gordon numbered tickets from
1 to 100, and shook them in a hat. Each
child took a ticket.

Tad said, "Whoever has the smallest
number rides first. The one with the next
larger number rides next, and so on."

These numbers were drawn from the
hat:

68, 6, 60, 11, 92, 33, 54, 89, 21, 95.

Write the numbers in the order in which
the children will ride.

Finding Pages

1. What is the number of this page?
2. Which way must you turn in this book to find: Page 29? Find it quickly. Page 94? Find it. Page 52? Find it.
3. Which page is nearer the front of the book: 40 or 50? 68 or 53? 89 or 92?
4. Which page is nearer the back of the book: 28 or 81? 73 or 37? 75 or 57?
5. Who can find page 39 first? Page 93?
6. In a race to find page 37, you open your book to page 45. Should you turn forward or backward?
7. If you want page 38 and open your book to page 26, you should turn _____.
8. You open your book to page 54 but you want page 45. You should turn _____.
9. You want to find page 68 and you open your book to page 86. You should turn _____.
10. Who can find page 98 first? Page 13? Page 23? Page 77? Page 100?

Practice

Write the sums:

	a	b	c	d	e	f	g	h
1.	$\begin{array}{r} 3 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 3 \\ \hline \end{array}$

Subtract. Write the answers:

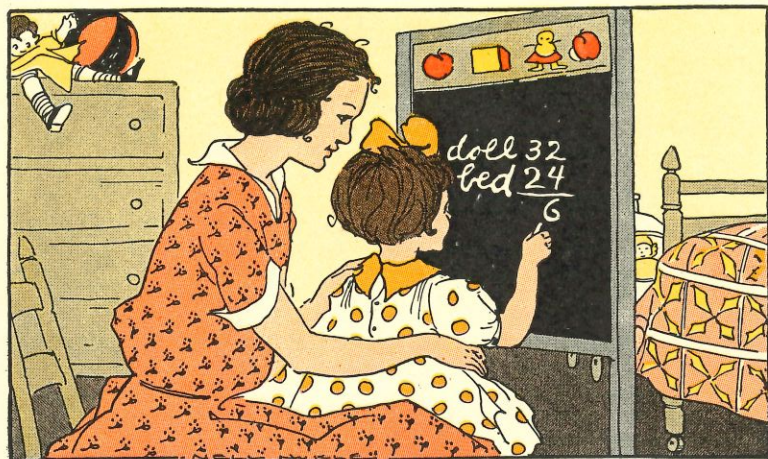
2.	$\begin{array}{r} 9 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 7 \\ \hline \end{array}$
----	---	---	---	---	---	---	---	---

Notice the signs. Write the answers:

3.	$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$
----	--	--	--	--	--	--	--	--

4.	$\begin{array}{r} 2 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$
----	--	--	---	--	--	--	---	--

	a	b	c
5.	$10 - 7 =$	$5 - 3 =$	$10 - 2 =$
6.	$8 - 6 =$	$10 - 6 =$	$6 - 5 =$
7.	$1 + 8 =$	$2 + 5 =$	$0 + 5 =$
8.	$8 - 2 =$	$1 + 9 =$	$1 + 6 =$
9.	$2 - 0 =$	$5 + 5 =$	$9 - 9 =$



"Mother, may I buy a baby doll and little bed that I saw in a store window?"

"How much will both cost, Peggy?"

"I don't know, Mother, but the doll is 32¢ and the bed is 24¢," Peggy said.

This is the way to find the answer:

Begin at the right and add the ones.

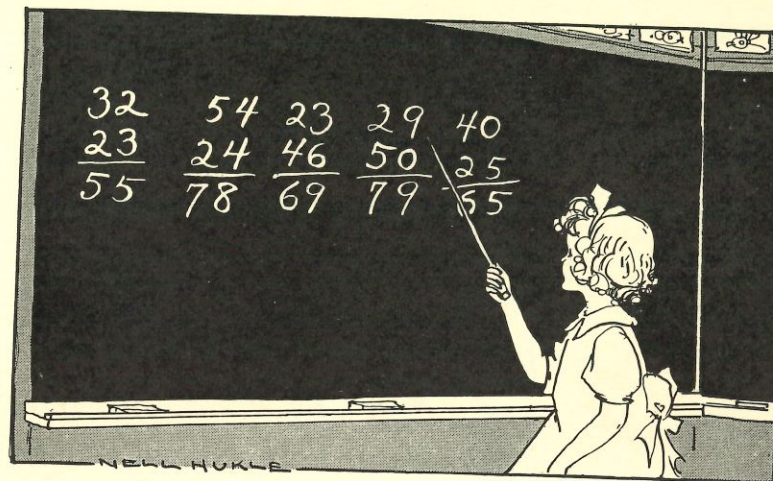
32¢ Think 2 and 4 are 6.

24¢ Write the 6 under the ones.

56¢ Then add the tens. 3 and 2 are 5.

Write 5 under tens as shown.

The answer is 56¢ for both.



See if you can explain how Miss Brown worked the examples on the blackboard.

Copy the examples below and add:

$\begin{array}{r} 18 \\ 50 \\ \hline \end{array}$	$\begin{array}{r} 56 \\ 33 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ 52 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ 64 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ 48 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ 50 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ 25 \\ \hline \end{array}$
---	---	---	---	---	---	---

Are your answers correct?

Find out, or check, in this way: $\begin{array}{r} 12 \\ 46 \\ \hline \end{array}$

Add up. Think: $6+2=8$, $4+1=5$. $\begin{array}{r} 58 \\ \hline \end{array}$

The sum is 58, the same as before.

When the sum is the same whether you add up or down your work is probably correct.

Number Stories

1. Ray had 64 marbles, and he bought 23 more. How many marbles had Ray then?

2. A farmer took 70 bushels of potatoes to Fred's father in one load, and 25 bushels in another load. How many bushels did he take in both loads?

3. Carl's uncle had 10 cows in one field and 65 in another. How many cows did he have in both fields?

4. When Ellen went to feed her 10 lambs, she saw only 8 of them. How many lambs were missing?

5. Cousin Jack stayed at our house all of June and July. There are 30 days in June and 31 days in July. How many days did Jack stay?

6. Mr. Roy went away on business for 2 days. He traveled 64 miles the first day and 35 miles the second day. How many miles did Mr. Roy travel in two days?

7. What is the sum of 31 and 58?

To Find What You Know

Set 1. Add. Write the answers.

4	3	2	5	6	7	2	5
<u>6</u>	<u>5</u>	<u>6</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>4</u>	<u>3</u>
3	7	2	6	4	3	3	4
<u>6</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>7</u>	<u>3</u>

Set 2. Subtract. Write the answers.

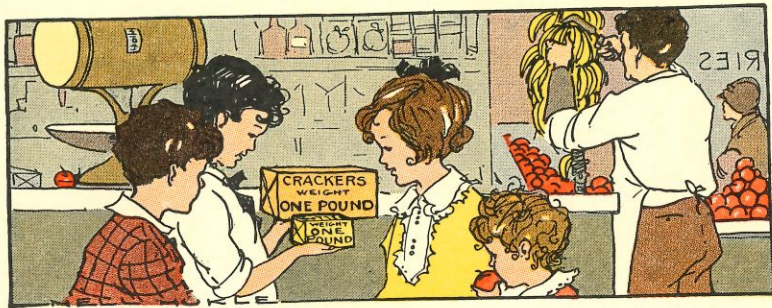
6	9	6	2	3	5	8	9
<u>2</u>	<u>7</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>3</u>
8	9	9	6	8	9	7	4
<u>7</u>	<u>5</u>	<u>8</u>	<u>6</u>	<u>5</u>	<u>4</u>	<u>7</u>	<u>0</u>

Set 3. Notice the signs. Write answers.

7	2	6	8	7	5	9	8
<u>-5</u>	<u>+8</u>	<u>-4</u>	<u>-6</u>	<u>-4</u>	<u>+5</u>	<u>+0</u>	<u>+2</u>

Set 4. Add and check.

26	58	73	81	42	30	44	10
<u>72</u>	<u>20</u>	<u>23</u>	<u>16</u>	<u>23</u>	<u>29</u>	<u>10</u>	<u>50</u>



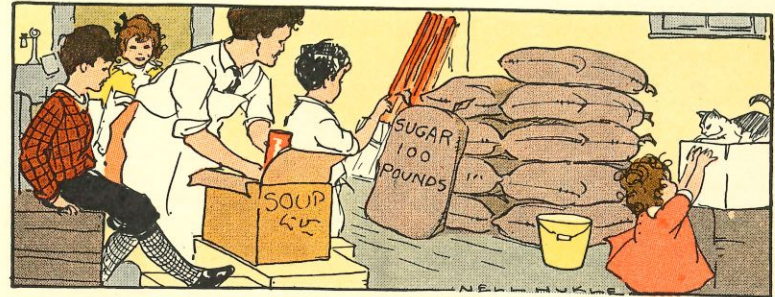
Mr. Ray was filling Tom's order for groceries. He gave Tom a pound package of crackers and a brick of butter marked, "Weight one pound."

Tom said, "That pound of butter is so much smaller than the pound of crackers!"

Tom lifted the pound of butter and the pound of crackers. He thought the butter was heavier. Then he weighed them on the scales. One was as heavy as the other.

Mr. Ray said, "Almost everything here is sold by the pound now — potatoes, flour, sugar, candy, green peas, apples, and sometimes even bananas, melons, and eggs."

How many pounds do you weigh?



In the back room of the store Tom asked, "Mr. Ray, what's in these big bags?"

"Sugar, one hundred pounds in each bag," Mr. Ray answered.

"Whew, sugar," Tom said. He counted, "One hundred, two hundred, three hundred, four hundred, five hundred, six hundred, seven hundred, eight hundred, nine hundred, ten hundred or one thousand pounds of sugar!"

100	200	300	400	500
600	700	800	900	1000

Write the numbers as you count by hundreds from 100 to 1000.

Other Large Numbers

1. Eva lives at 250 Main Street.
2. Carl rode 175 miles on the train.
3. In Bly school there are 408 children.
4. Read 250, two hundred fifty.
5. Read 175, one hundred seventy-five.
6. Read 408, four hundred eight.
7. Find page 130, page 147, page 108.

Write these numbers in figures:

8. Five hundred eighty
9. Eight hundred twenty-nine
10. Nine hundred sixty
11. Eight hundred
12. Three hundred fifty
13. Two hundred four
14. One hundred eight
15. Four hundred ten
16. Seven hundred thirty-six

Read these numbers:

17. 790, 493, 249, 648, 309, 501
18. 38, 161, 555, 87, 206, 898, 600



1. Jane has 39 pennies in her bank. How many pennies will be left after she takes out 12 to buy a doll?

Remember: To subtract, always write the larger number first. Under it write the smaller number.

Think:

$$\begin{array}{r} 39 \\ 12 \\ \hline 27 \end{array}$$

Two from 9; write 7 under ones.

One from 3; write 2 under tens.

Jane will have 27 pennies left.

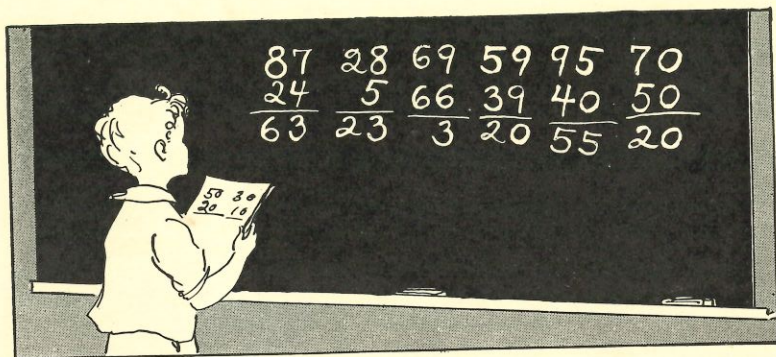
2. If she takes out 6 more pennies for some cloth, how many will be left?

$$\begin{array}{r} 27 \\ 6 \\ \hline 21 \end{array}$$

Think, 6 from 7 is 1.

There is nothing to take from 2.

Bring down the 2. 21 will be left.



See if you can tell how Miss Jackson got the answers on this blackboard.

Copy the examples below and subtract:

1. $\begin{array}{r} 96 \\ 42 \\ \hline \end{array}$ $\begin{array}{r} 79 \\ 36 \\ \hline \end{array}$ $\begin{array}{r} 50 \\ 20 \\ \hline \end{array}$ $\begin{array}{r} 86 \\ 32 \\ \hline \end{array}$ $\begin{array}{r} 84 \\ 13 \\ \hline \end{array}$ $\begin{array}{r} 99 \\ 86 \\ \hline \end{array}$ $\begin{array}{r} 78 \\ 67 \\ \hline \end{array}$

2. $\begin{array}{r} 45 \\ 13 \\ \hline \end{array}$ $\begin{array}{r} 89 \\ 45 \\ \hline \end{array}$ $\begin{array}{r} 27 \\ 22 \\ \hline \end{array}$ $\begin{array}{r} 38 \\ 26 \\ \hline \end{array}$ $\begin{array}{r} 56 \\ 43 \\ \hline \end{array}$ $\begin{array}{r} 68 \\ 47 \\ \hline \end{array}$ $\begin{array}{r} 69 \\ 14 \\ \hline \end{array}$

This is the way Miss Jackson showed
 93 her class how to check subtraction:
 71 Beginning at the bottom to add,
 22 think 2 and 1 are 3. 2 and 7 are 9.

Add the answer and the smaller number;
 the sum should be the larger number.



Hippity hop to the bakery shop
 To get a dozen cup cakes,
 Six are light and six are dark—
 Twelve is what a dozen makes.

1. Nan bought a dozen little cakes. The baker put just ____ cakes into her bag.
2. A dozen rolls is ____ rolls.
3. Twelve cookies make a ____ cookies.
4. There are ____ eggs in a dozen.
5. Twelve oranges make a ____.
6. How many roses are there in a dozen?

Twelve of anything make a dozen.

Number Stories

1. Nan bought 6 light cakes and 6 dark cakes. In all she bought ____ cakes.

2. Eight white cookies and four brown cookies are ____ cookies.

3. Nine boys were playing at Donald's house when 2 more came. That made ____ boys.

4. Tim had 6 white chickens and 5 yellow ones. In all he had ____ chickens.

5. Mrs. Clark bought 3 pounds of brown sugar and 8 pounds of white sugar. She bought ____ pounds of sugar altogether.

6. The baker said, "I sold 7 dozen chocolate cookies and 4 dozen white cookies this morning." How many dozen cookies did he sell?

Chart 8. Addition

2	3	6	9	7	8	5	8	6
9	8	6	2	4	3	6	4	5
<u>11</u>	<u>11</u>	<u>12</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>12</u>	<u>11</u>

Practice

Give the sums, then write them:

$$\begin{array}{r} 1. \quad 2 \quad 7 \quad 6 \quad 8 \quad 8 \quad 6 \quad 3 \quad 9 \\ \quad \underline{9} \quad \underline{4} \quad \underline{6} \quad \underline{3} \quad \underline{4} \quad \underline{5} \quad \underline{8} \quad \underline{2} \end{array}$$

$$\begin{array}{r} 2. \quad 1 \quad 8 \quad 2 \quad 3 \quad 6 \quad 9 \quad 6 \quad 7 \\ \quad \underline{9} \quad \underline{4} \quad \underline{7} \quad \underline{8} \quad \underline{3} \quad \underline{2} \quad \underline{6} \quad \underline{2} \end{array}$$

$$\begin{array}{r} 3. \quad 6 \quad 3 \quad 6 \quad 8 \quad 5 \quad 7 \quad 8 \quad 7 \\ \quad \underline{4} \quad \underline{7} \quad \underline{5} \quad \underline{3} \quad \underline{6} \quad \underline{4} \quad \underline{2} \quad \underline{3} \end{array}$$

$$\begin{array}{r} 4. \quad 6 \quad 3 \quad 5 \quad 2 \quad 5 \quad 6 \quad 8 \quad 4 \\ \quad \underline{5} \quad \underline{8} \quad \underline{2} \quad \underline{9} \quad \underline{5} \quad \underline{6} \quad \underline{3} \quad \underline{6} \end{array}$$

Copy, add, and check:

$$\begin{array}{r} 5. \quad 51 \quad 10 \quad 83 \quad 75 \quad 13 \quad 51 \quad 13 \\ \quad \underline{17} \quad \underline{85} \quad \underline{16} \quad \underline{12} \quad \underline{84} \quad \underline{45} \quad \underline{63} \end{array}$$

$$6. \quad 7 + 4 = \quad 3 + 8 = \quad 8 + 4 =$$

$$7. \quad 6 + 6 = \quad 6 + 5 = \quad 2 + 9 =$$

$$8. \quad 9 + 2 = \quad 8 + 3 = \quad 5 + 6 =$$

$$9. \quad 5 + 5 = \quad 1 + 9 = \quad 3 + 5 =$$

$$10. \quad 7 + 1 = \quad 7 + 4 = \quad 7 + 3 =$$



When Jo's mother made a cake she let Jo bake a little one for herself.

Ann and Jean came to play and Jo served her cake. Counting Jo and her mother, how many were there to eat the cake?

First, Jo cut the cake through the middle.

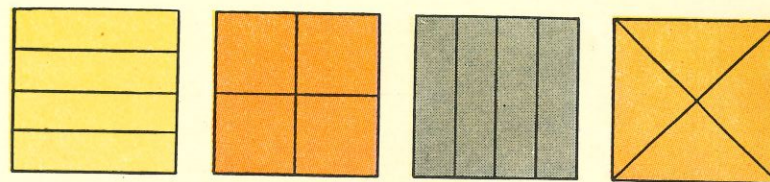
"That makes 2 pieces of the same size," Ann said, "but we need 4 pieces."

Then, Jo cut it through the middle again, across the other way.



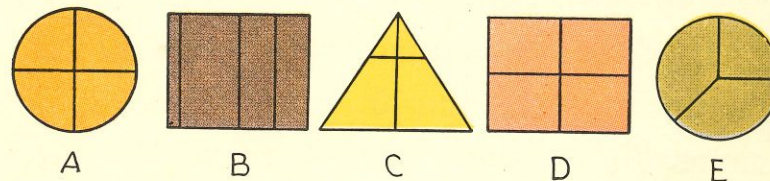
"Now there are 4 equal pieces," said Jean. "Just think! Each of us will have one-fourth or one quarter of a whole cake."

One-fourth is written $\frac{1}{4}$

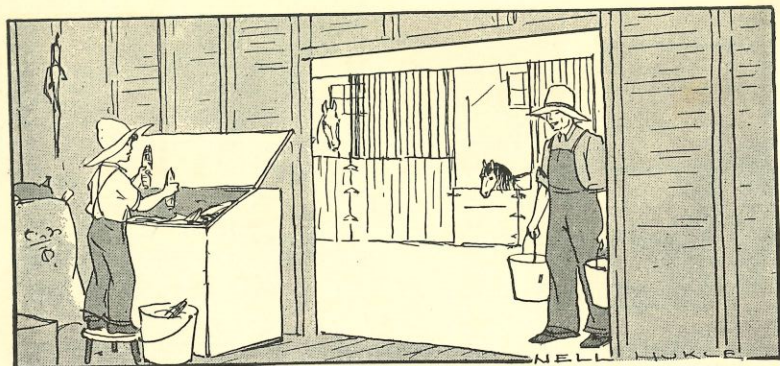


Here are four squares of the same size. Each square is cut into ____ equal parts. Each part is called ____ of the whole square.

When a square is cut into fourths there are ____ equal pieces.



Which of these shapes show fourths?
 Draw a small circle. Color $\frac{1}{2}$ of it red.
 Draw a square. Color $\frac{1}{4}$ of it red.
 Draw a triangle. Color $\frac{1}{2}$ of it blue.
 Which would you rather have:
 $\frac{1}{2}$ of a candy bar or $\frac{1}{4}$ of a candy bar?
 A whole apple = ____ fourths, or ____ halves.



1. "Take 9 ears of corn to my saddle horse, Black Beauty, and 3 ears to your pony," Uncle Bill told James. How many ears of corn should James get altogether?

2. George had 7 calves to feed and then his uncle gave him 5 more. How many calves did he have to feed then?

3. Uncle Bill had 4 big pigs and 9 little ones. He had _____ pigs in all.

Chart 9. Addition

4	3	5	9	4	7	9	5	4
7	9	7	3	8	5	4	8	9
11	12	12	12	12	12	13	13	13

Practice

Give the sums, then write them:

$$\begin{array}{r} 5 \\ 7 \end{array} \quad \begin{array}{r} 4 \\ 9 \end{array} \quad \begin{array}{r} 7 \\ 5 \end{array} \quad \begin{array}{r} 9 \\ 4 \end{array} \quad \begin{array}{r} 4 \\ 7 \end{array} \quad \begin{array}{r} 3 \\ 9 \end{array} \quad \begin{array}{r} 4 \\ 8 \end{array} \quad \begin{array}{r} 5 \\ 8 \end{array}$$

$$\begin{array}{r} 9 \\ 3 \end{array} \quad \begin{array}{r} 6 \\ 5 \end{array} \quad \begin{array}{r} 6 \\ 6 \end{array} \quad \begin{array}{r} 3 \\ 8 \end{array} \quad \begin{array}{r} 7 \\ 5 \end{array} \quad \begin{array}{r} 9 \\ 2 \end{array} \quad \begin{array}{r} 9 \\ 4 \end{array} \quad \begin{array}{r} 7 \\ 5 \end{array}$$

$$\begin{array}{r} 3 \\ 7 \end{array} \quad \begin{array}{r} 2 \\ 5 \end{array} \quad \begin{array}{r} 8 \\ 2 \end{array} \quad \begin{array}{r} 2 \\ 7 \end{array} \quad \begin{array}{r} 3 \\ 4 \end{array} \quad \begin{array}{r} 6 \\ 3 \end{array} \quad \begin{array}{r} 7 \\ 4 \end{array} \quad \begin{array}{r} 9 \\ 1 \end{array}$$

Add and check:

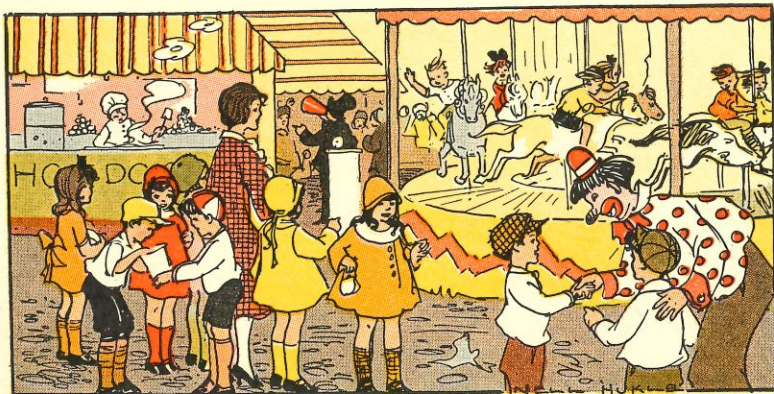
$$\begin{array}{r} 42 \\ 43 \end{array} \quad \begin{array}{r} 86 \\ 13 \end{array} \quad \begin{array}{r} 27 \\ 51 \end{array} \quad \begin{array}{r} 33 \\ 43 \end{array} \quad \begin{array}{r} 52 \\ 47 \end{array} \quad \begin{array}{r} 87 \\ 10 \end{array} \quad \begin{array}{r} 19 \\ 40 \end{array}$$

Subtract. Write only the answers:

$$\begin{array}{r} 9 \\ 6 \end{array} \quad \begin{array}{r} 8 \\ 4 \end{array} \quad \begin{array}{r} 9 \\ 5 \end{array} \quad \begin{array}{r} 7 \\ 3 \end{array} \quad \begin{array}{r} 5 \\ 5 \end{array} \quad \begin{array}{r} 9 \\ 3 \end{array} \quad \begin{array}{r} 7 \\ 2 \end{array} \quad \begin{array}{r} 9 \\ 0 \end{array}$$

Subtract and check:

$$\begin{array}{r} 94 \\ 63 \end{array} \quad \begin{array}{r} 58 \\ 23 \end{array} \quad \begin{array}{r} 89 \\ 26 \end{array} \quad \begin{array}{r} 75 \\ 13 \end{array} \quad \begin{array}{r} 69 \\ 54 \end{array} \quad \begin{array}{r} 68 \\ 26 \end{array} \quad \begin{array}{r} 39 \\ 25 \end{array}$$



1. Miss Tod took 15 children to the fair. While 6 were riding on the merry-go-round Sue counted 9 of them watching with Miss Tod. Was any child missing?

2. Jim and Ted are trying to get up a baseball game. They need 9 boys for a Blue team and 9 boys for a Red team. They need ____ boys for both teams.

Chart 10. Addition

6	7	9	8	7	9	6	9	8
9	7	6	8	6	8	7	9	6
15	14	15	16	13	17	13	18	14

Practice

1. Louis had 78 dollars in the bank. He spent 26 dollars of it for a bicycle. How much did he have left?

Write only the sums:

$$\begin{array}{r} 2. \quad 8 \quad 6 \quad 9 \quad 7 \quad 9 \quad 8 \quad 7 \quad 9 \\ \quad \quad 6 \quad 7 \quad 6 \quad 7 \quad 8 \quad 8 \quad 6 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6 \quad 4 \quad 5 \quad 8 \quad 7 \quad 5 \quad 4 \quad 9 \\ \quad \quad 9 \quad 9 \quad 7 \quad 4 \quad 5 \quad 6 \quad 9 \quad 3 \\ \hline \end{array}$$

4. One morning Esther picked flowers from her grandmother's garden. She picked nine pink roses and eight yellow ones. That made a bouquet of ____ roses.



Number Stories

1. Bob said, "Clarence, I am 9 years old. How old are you?"

"I'm 5 years older than you are."
Clarence must be ____ years old.

2. Eight children sit in the first row and seven sit in the second row. They will need ____ places at the blackboard.

3. Seven boys and nine girls will each carry a flag in the second grade drill. How many flags will they need?

4. Eight cents and a nickel are ____¢.

5. Vi invited 7 girls and 8 boys to her party. In all she asked ____ children.

6. The sum of 8 and 9 is ____.

Chart 11. Addition

9	6	8	7	9	8	8	7	5
5	8	5	8	7	9	7	9	9
14	14	13	15	16	17	15	16	14

Practice

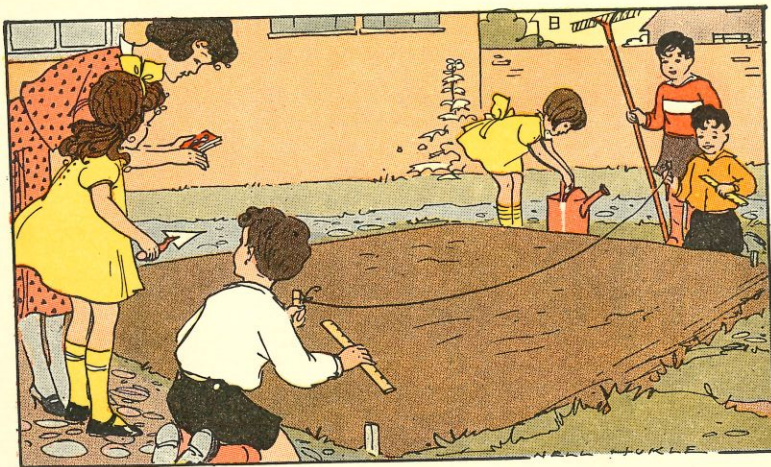
Say the sums, then write them:

	a	b	c	d	e	f	g	h
1.	$\begin{array}{r} 7 \\ 8 \end{array}$	$\begin{array}{r} 8 \\ 9 \end{array}$	$\begin{array}{r} 6 \\ 8 \end{array}$	$\begin{array}{r} 9 \\ 5 \end{array}$	$\begin{array}{r} 9 \\ 7 \end{array}$	$\begin{array}{r} 8 \\ 7 \end{array}$	$\begin{array}{r} 5 \\ 9 \end{array}$	$\begin{array}{r} 8 \\ 5 \end{array}$
2.	$\begin{array}{r} 5 \\ 9 \end{array}$	$\begin{array}{r} 8 \\ 7 \end{array}$	$\begin{array}{r} 3 \\ 6 \end{array}$	$\begin{array}{r} 7 \\ 9 \end{array}$	$\begin{array}{r} 5 \\ 8 \end{array}$	$\begin{array}{r} 4 \\ 9 \end{array}$	$\begin{array}{r} 7 \\ 8 \end{array}$	$\begin{array}{r} 9 \\ 5 \end{array}$
3.	$\begin{array}{r} 9 \\ 7 \end{array}$	$\begin{array}{r} 8 \\ 5 \end{array}$	$\begin{array}{r} 7 \\ 9 \end{array}$	$\begin{array}{r} 6 \\ 8 \end{array}$	$\begin{array}{r} 5 \\ 9 \end{array}$	$\begin{array}{r} 6 \\ 7 \end{array}$	$\begin{array}{r} 8 \\ 9 \end{array}$	$\begin{array}{r} 4 \\ 6 \end{array}$
4.	$\begin{array}{r} 7 \\ 5 \end{array}$	$\begin{array}{r} 8 \\ 7 \end{array}$	$\begin{array}{r} 5 \\ 9 \end{array}$	$\begin{array}{r} 7 \\ 8 \end{array}$	$\begin{array}{r} 8 \\ 9 \end{array}$	$\begin{array}{r} 9 \\ 7 \end{array}$	$\begin{array}{r} 7 \\ 6 \end{array}$	$\begin{array}{r} 8 \\ 8 \end{array}$

Write the sums and check:

	i	j	k	l	m	n
5.	$\begin{array}{r} 42 \\ 53 \end{array}$	$\begin{array}{r} 64 \\ 13 \end{array}$	$\begin{array}{r} 21 \\ 55 \end{array}$	$\begin{array}{r} 85 \\ 14 \end{array}$	$\begin{array}{r} 21 \\ 66 \end{array}$	$\begin{array}{r} 43 \\ 45 \end{array}$

6. Viola wants to buy a swimming cap for 34¢ and a big ball for 22¢. Both of them together will cost ____¢.



A second grade class had a school garden. When the ground was ready for seeds, Miss Day asked, "How far apart shall we plant our rows?"

Tom said, "Father plants seed of this kind in rows one foot apart. That's just the length of our rulers."

Miss Day read from the seed envelope, "Plant in rows 12 inches apart."

"That's right," said Tom. "It's just what my father does. Twelve inches equal one foot."

$$12 \text{ inches} = 1 \text{ foot}$$

Using Inches and Feet

1. On the board draw a line that you think is 1 foot long. Is it too long?

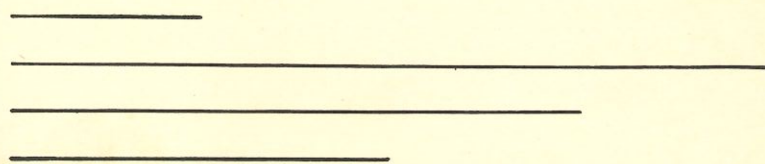
Check your line or answer each time by measuring with your ruler.

2. Try to draw a line 2 feet long.

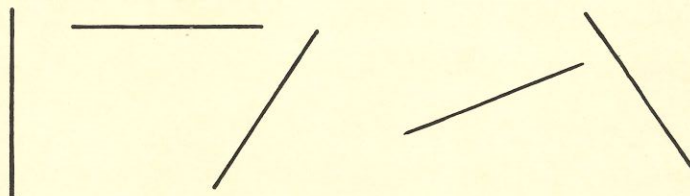
3. With your ruler draw a line 3 feet long. This line is one yard long.

$$3 \text{ feet} = 1 \text{ yard}$$

4. How long do you think these lines are:



5. Which line do you think is longest?



6. Measure your desk. How long is it? How wide is it? How high is it?

Number Stories

1. Cora's mother bought a dozen little cakes. The family ate 4 of them for lunch. How many were left?

2. Leo is 7 years old and his brother is 12. How much younger is Leo?

3. Don's father bought a dozen roses. Six of them were pink and the rest were white. _____ roses were white.

4. Will drew a line a foot long. He erased 5 inches. _____ inches were left.

5. Two are _____ fewer than 11.

6. Sixteen are _____ more than 8.

7. The difference between 6 and 11 is _____.

Chart 10. Subtraction

12	11	12	11	11	12	16	12	11
4	6	6	9	2	5	8	7	3
<u>8</u>	<u>5</u>	<u>6</u>	<u>2</u>	<u>9</u>	<u>7</u>	<u>8</u>	<u>5</u>	<u>8</u>

Practice

Subtract, then write the answers:

	a	b	c	d	e	f	g	h
1.	$\begin{array}{r} 12 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 7 \\ \hline \end{array}$
2.	$\begin{array}{r} 11 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 7 \\ \hline \end{array}$
3.	$\begin{array}{r} 16 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 9 \\ \hline \end{array}$

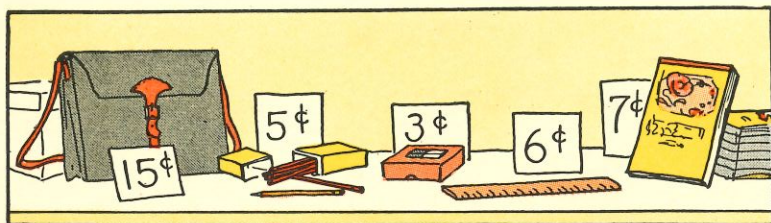
Watch the signs and give the answers:

4.	$\begin{array}{r} 8 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -9 \\ \hline \end{array}$
----	--	--	--	--	---	--	---	---

5. How much more will a 45¢ doll cost than a 25¢ doll?

6. How much will a 40¢ cake and a 50¢ pie cost?

7. The Wild Cats' score in a football game was 27 and the Tigers' was 14. What was the difference between their scores?



1. Dick had 13¢ before he spent 5¢ for a pencil. Then he had ____ ¢ left.

2. A tablet costs ____ ¢ less than a bag.

3. Mary wanted to buy a ruler and a tablet. The cost of both is ____ ¢. She had only 8¢, so she needed ____ ¢ more.

4. Sam had 17¢. He bought a pencil and an eraser for ____ ¢. He had ____ ¢ left.

5. Five cents is ____ cents less than 14¢.

6. Fourteen cents is ____ more than 6¢.

7. The difference between seven and eleven is ____.

Chart 11. Subtraction

18	12	11	13	14	14	15	17	13
9	3	7	5	5	6	7	8	8
9	9	4	8	9	8	8	9	5

Practice

Subtract. Think the answers; write them:

$$\begin{array}{r} 14 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ 9 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 7 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 6 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ 7 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 8 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ 8 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ 7 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 8 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 6 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ 9 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 7 \\ \hline \end{array}$$

Subtract, and check:

$$\begin{array}{r} 68 \\ 45 \\ \hline \end{array} \quad \begin{array}{r} 97 \\ 65 \\ \hline \end{array} \quad \begin{array}{r} 88 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 46 \\ 13 \\ \hline \end{array} \quad \begin{array}{r} 90 \\ 30 \\ \hline \end{array} \quad \begin{array}{r} 75 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 89 \\ 45 \\ \hline \end{array}$$

5. 8 from 13 = 7 from 15 =

6. 6 from 14 = 5 from 13 =

7. Miss Smith wanted 17 pupils for a jack-o'-lantern drill. After she had chosen 8 pupils, she needed _____ more.



A Week on the Farm

Uncle Gene asked Billy and Bobby to spend a week on his farm.

On Sunday, the first day, the boys had a bus ride to the farm. Monday they were up early to ride on the loads of hay. They drove the pony on Tuesday, and on Wednesday all went for a picnic at the lake.

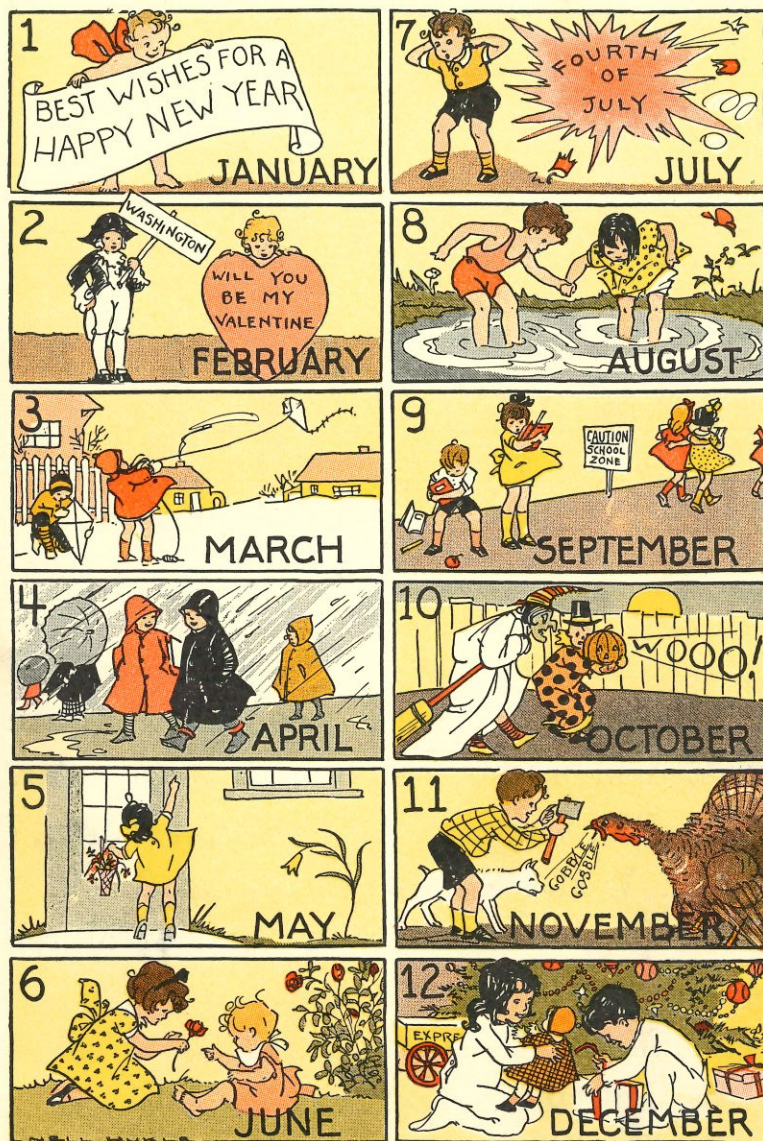
Thursday the boys played in the haymow. That night Billy said, "Only Friday and Saturday left. A week, or seven days, is a short time on a farm."

1. What day is today? Tomorrow?
2. Yesterday was _____.
3. Day before yesterday was _____.
4. Day after tomorrow will be _____.
5. There are ____ days in a week. Name them.
6. There are ____ school days in a week.
7. The first day of the week is _____.
8. The last day of the week is _____.



Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1. This calendar is for what month?
The names of the days of the week are written in a short way on this calendar.
2. What does Sun. stand for? Mon.? Tues.? Wed.? Thurs.? Fri.? Sat.?
3. On this calendar, the first of March comes on what day?
4. March 19 is on _____.
5. March 25 is on _____.
6. The twenty-fourth of March is on ____.



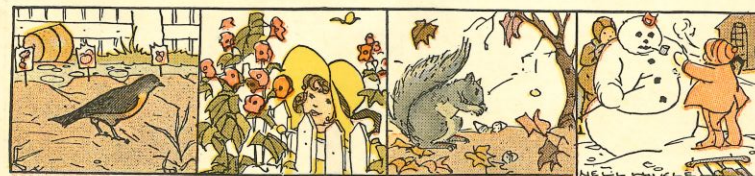
Months and Seasons

1. In what month are you reading this?
2. In what month is your birthday?
3. Name the months of the year.
4. There are ____ months in a year.
5. The second month is _____.
6. In what month does your school begin?
7. What month comes after May?
8. What month comes before January?

The Months in Each Season

1. Spring	2. Summer	3. Fall	4. Winter
March	June	September	December
April	July	October	January
May	August	November	February

9. In what season is December? June? November? March? February? May? July?



Number Stories

1. Ida is 11 years old and Martha is 8. How many years younger is Martha?

2. Herbert had 11 pennies before he bought an ice cream cone for 5 pennies. How many pennies did he still have?

3. At the cake shop, Alvin asked for a dozen cookies. Eight of them were dark and the rest were light. There were ____ light cookies.

4. The difference between six and thirteen is ____.

5. Seven and ____ make 14.

6. Eleven are ____ more than 4.

7. Nine are ____ fewer than 12.

8. Nine from 15 = ____ . Seven from 13 = ____ .

Chart 12. Subtraction

11	14	11	12	12	13	15	13	11
5	7	4	8	9	6	9	7	8
6	7	7	4	3	7	6	6	3

Practice

Subtract. Give the answers, then write them:

	a	b	c	d	e	f	g	h
1.	$\begin{array}{r} 11 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ 7 \\ \hline \end{array}$
2.	$\begin{array}{r} 11 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ 5 \\ \hline \end{array}$
3.	$\begin{array}{r} 14 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ 4 \\ \hline \end{array}$

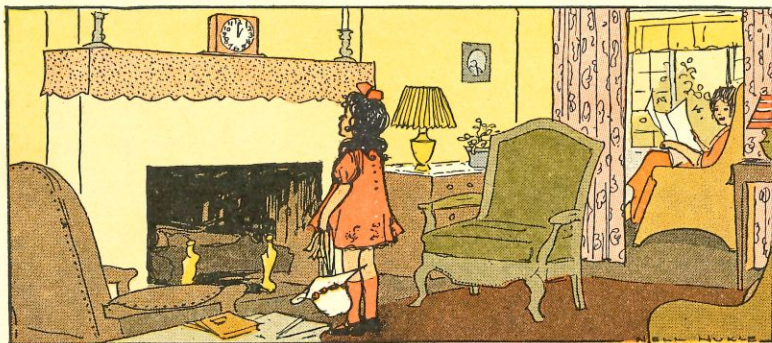
Watch the signs, and write the answers:

4.	$\begin{array}{r} 13 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -9 \\ \hline \end{array}$
----	---	--	--	---	---	--	--	---

5. Which is the larger score, 87 or 35? How much larger is it?

6. Jim had 87¢ before he left for the circus. When he returned home he had 34¢. He must have spent ____¢.

7. Dorothy earned 27¢ last week and 42¢ this week. She earned ____¢ in the two weeks.



“Mother, is it time to go to the party?”

“Where are the hands of the clock, Sue?”

“The short hand is at one,” said Sue.

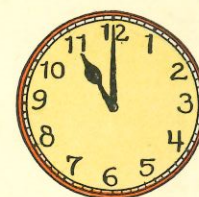
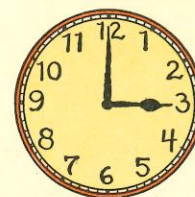
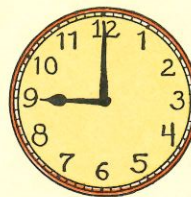
“Yes, but I must know where the long hand is, too,” her mother said.

“The long hand is at twelve, Mother.”

“Then it is just 1 o’clock and you will not go for an hour or 60 minutes.

“While the long minute hand is moving around the clock face once to get back to 12, the short hour hand will move only from 1 to 2. When the short hand is at 2 and the long hand is at 12, the time will be 2 o’clock, time to go to the party.”

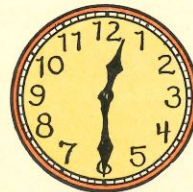
What time does each clock show?



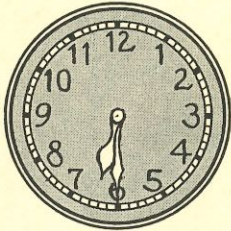
When Sue had been at the party some time, she said to Anne’s mother, “Will you please tell me when it is half past four? I must go home then.”

“When the long hand is at 6 and the short hand is half way between 4 and 5, it will be half past 4,” Anne’s mother told Sue.

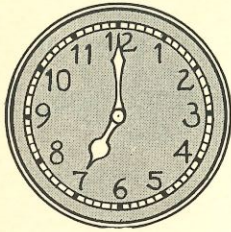
What time does each of these clocks show?



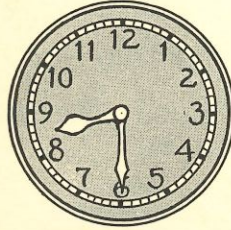
Telling Time



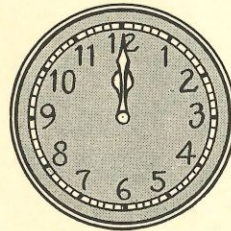
This is the clock that
Tells Jack the time.
It strikes every hour
And he hears its chime.



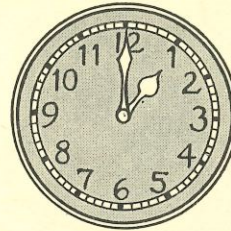
At _____ o'clock
He hears mother say,
"It's time to get up now
To start a new day."



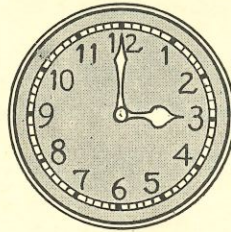
At _____ o'clock
With breakfast done,
Jack goes to school
For work and for fun.



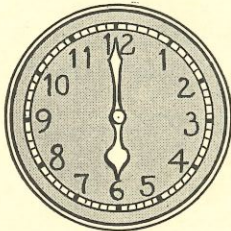
Then all through the morning
Till _____ o'clock, noon,
He reads, adds, and paints
And sings a fine tune.



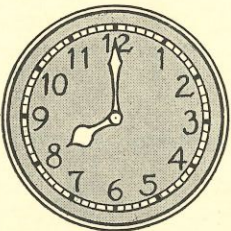
And then for an hour
From twelve until _____
When he's eaten his lunch,
He plays in the sun.



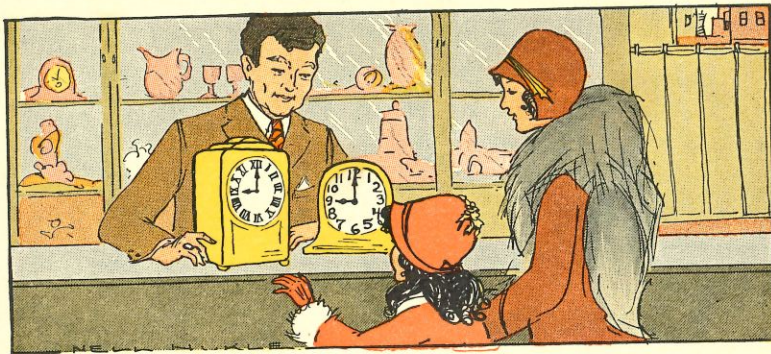
After his playtime
He works until _____.
From then until dinner,
He's happy and free.



At _____ o'clock sharp
Jack is called in to eat.
He's hungry, of course,
And food is a treat.



Then he plays for awhile
Till the hands point to _____,
And he hears Father say,
"Off to bed, Jack, it's late!"



Sue's mother picked out two clocks and asked, "Which shall we buy?"

"I can't tell time by the clock that hasn't numbers on it," Sue said.

"This clock has the same numbers made another way. See, here they are."

I	II	III	IIII or IV	V	VI
1	2	3	4	5	6
VII	VIII	IX	X	XI	XII
7	8	9	10	11	12

What time does each clock below show?



Can You Work These?

1. Mrs. Bow took a plate of 15 cookies to some boys playing near her house. Each boy took one cookie and then there were 8 cookies left on the plate. Was there another cookie for each boy?

2. Ames is 15 miles from where Bob and Gordon live. On their way to Ames, the boys saw a sign, "6 miles to Ames." How far were they from home?

3. During recess Harry counted 14 cars that went east and 8 cars that went west. _____ more cars went east than west.

4. Will is 13 years old and John is 9. How old was Will when John was born?

Chart 13. Subtraction

17	14	16	13	16	14	13	15	15
9	9	7	9	9	8	4	8	6
8	5	9	4	7	6	9	7	9

Practice

Subtract. Give the answers; write them:

- | | a | b | c | d | e | f | g | h |
|----|--|--|--|--|--|--|--|--|
| 1. | $\begin{array}{r} 17 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 7 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 14 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 8 \\ \hline \end{array}$ |
| 3. | $\begin{array}{r} 13 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 7 \\ \hline \end{array}$ |

4. Jane had 15 little chicks. Chicken hawks took 8. Only ____ chicks were left.

5. Fay bounced a ball 7 times, but Agnes bounced it 13 times. She bounced it ____ times more than Fay.

6. Jack held his breath while he took 12 steps. Then Dan tried. When he had taken 8 steps, he thought, "I need ____ more steps to equal Jack's number."

7. Nine cents are ____ fewer than 15¢.

Practice

Subtract. Write only the answers:

- | | a | b | c | d | e | f | g | h |
|----|--|--|--|--|--|--|--|--|
| 1. | $\begin{array}{r} 11 \\ 2 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 9 \\ 3 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 9 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 15 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 3 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 18 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 8 \\ \hline \end{array}$ |
| 3. | $\begin{array}{r} 14 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 10 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 7 \\ \hline \end{array}$ |
| 4. | $\begin{array}{r} 14 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 3 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ 3 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 9 \\ \hline \end{array}$ |
| 5. | $\begin{array}{r} 13 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 3 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 13 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ 2 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ 8 \\ \hline \end{array}$ |

Add. Write only the answers:

- | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|
| 6. | $\begin{array}{r} 9 \\ 4 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 9 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ 6 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ 9 \\ \hline \end{array}$ |
| 7. | $\begin{array}{r} 9 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 9 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 9 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ 8 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ 7 \\ \hline \end{array}$ |

United States Money

Point to the largest of these silver coins. What is its name? Name each coin.
What numbers have been left out?



Quarter, 25¢

= {
____ nickels.
1 dime and ____ nickels.
1 nickel and ____ dimes.



Half Dollar, 50¢

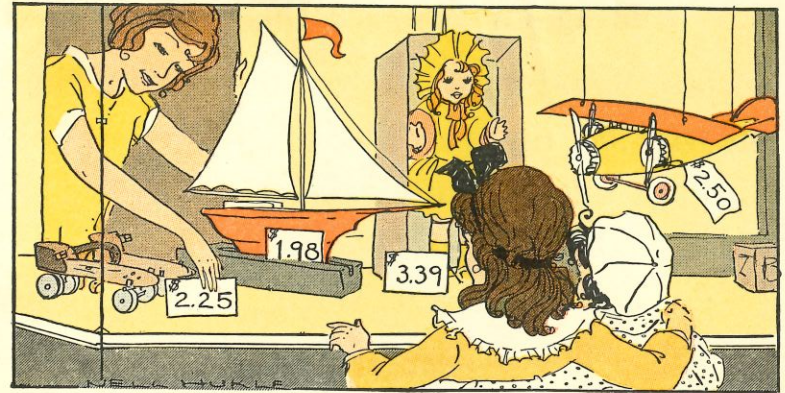
= {
____ quarters.
____ dimes.
____ nickels.
1 quarter and ____ nickels.



Dollar, 100¢

= {
____ half dollars.
____ quarters.
____ dimes.
____ nickels.
1 half dollar and ____ quarters.

We also have paper dollars. Ask somebody to show you a paper dollar.



\$2.25 \$1.98 \$3.39 \$2.50

\$ and \$ These are called dollar signs.
The doll costs 3 dollars and 39 cents.
The price of the roller skates in the picture is 2 dollars and 25 cents.

What does the airplane cost?

The sailboat costs ____.

Read these prices:

\$75 \$2.25 \$5.00 \$.75 \$.05

John's suit cost \$14 and his coat cost \$12. Both cost \$ ____.

\$14
12
\$26

Be sure to show that your answer is dollars.

Adding and Subtracting Money

Ted bought a \$.70 toy for his brother and a \$.50 toy for his cousin. "To find out how much I must pay for both, I must add," Ted thought.

\$.50 0 and 0 = 0. Write 0 under one's
 .70 place.
 \$1.20

5 and 7 = 12. Write the 2 under ten's and the 1 to the left in hundred's place.

Ted was careful to show dollars and cents in his answer.

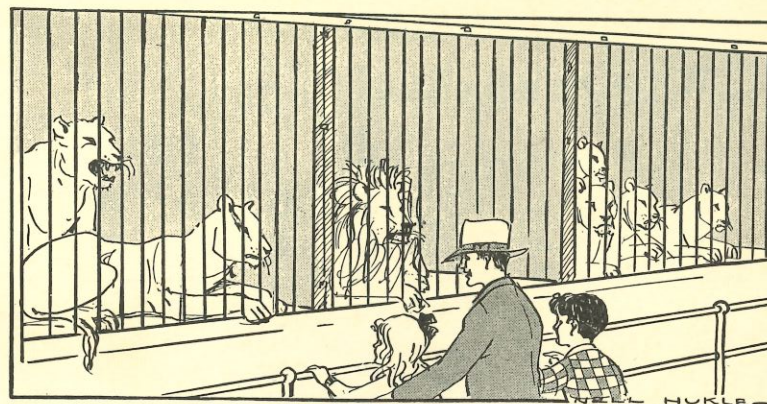
Add and check your answers:

\$53	\$ 83	\$96	\$72	\$.25	\$94	\$.76
44	93	72	82	.63	92	.73
\$97	\$176					

\$.44	\$.52	\$.70	\$.71	\$.61	\$.80	\$.52
.84	.97	.70	.98	.65	.75	.86

Subtract and check your answers:

\$96	\$.94	\$99	\$.75	\$.88	\$94	\$99
55	.80	67	.54	.74	42	82
\$41	\$1.14					



Mr. Moore took John and Joan to the zoo. There they saw many kinds of animals from different parts of the world.

1. There were 2 lions in one cage, 1 in another, and 4 in another. How many lions were in the three cages?

To find the answer by adding,
 write the numbers this way:

Think: 2 and 1 are 3, and 4 are 7.

Say only the sum, 7.

2
1
4
7

2. In a large cage three monkeys were climbing, another was scratching its head, and the other five were sleeping. How many monkeys were in the cage?

Practice

Write only the sums:

	a	b	c	d	e	f	g	h
1.	$\begin{array}{r} 2 \\ 1 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 2 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 1 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 3 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 1 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 1 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 3 \\ 2 \\ \hline \end{array}$
2.	$\begin{array}{r} 4 \\ 3 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 5 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 5 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 2 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 1 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 2 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 4 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 0 \\ 3 \\ \hline \end{array}$
3.	$\begin{array}{r} 3 \\ 6 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 2 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 6 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 3 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 3 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 1 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 2 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 5 \\ 6 \\ \hline \end{array}$
4.	$\begin{array}{r} 1 \\ 3 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 5 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 4 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 3 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 3 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 4 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 1 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 3 \\ 7 \\ \hline \end{array}$

Write these numbers neatly on your paper and add:

- 2, 5, 9 1, 4, 8 2, 7, 7
- 2, 6, 5 1, 3, 9 5, 1, 8
- What is the sum of 5¢, 4¢, and 8¢?
- 5 feet + 1 foot + 8 feet = ____ feet.

To Find What You Know

Try to give all of these sums in 2 minutes:

$\begin{array}{r} 0 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 8 \\ \hline \end{array}$
$\begin{array}{r} 1 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 9 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 0 \\ \hline \end{array}$
$\begin{array}{r} 9 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 8 \\ \hline \end{array}$
$\begin{array}{r} 1 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 2 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 8 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 6 \\ \hline \end{array}$
$\begin{array}{r} 2 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 0 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 8 \\ \hline \end{array}$

To Find What You Know

1. Now try to give all of these sums in half a minute:

$$\begin{array}{r} 6 \\ 0 \end{array} \begin{array}{r} 2 \\ 2 \end{array} \begin{array}{r} 3 \\ 3 \end{array} \begin{array}{r} 0 \\ 9 \end{array} \begin{array}{r} 3 \\ 0 \end{array} \begin{array}{r} 0 \\ 8 \end{array} \begin{array}{r} 2 \\ 3 \end{array} \begin{array}{r} 3 \\ 1 \end{array} \begin{array}{r} 2 \\ 9 \end{array} \begin{array}{r} 5 \\ 4 \end{array}$$

$$\begin{array}{r} 4 \\ 3 \end{array} \begin{array}{r} 6 \\ 9 \end{array} \begin{array}{r} 8 \\ 3 \end{array} \begin{array}{r} 7 \\ 9 \end{array} \begin{array}{r} 6 \\ 3 \end{array} \begin{array}{r} 9 \\ 8 \end{array} \begin{array}{r} 5 \\ 3 \end{array} \begin{array}{r} 3 \\ 6 \end{array} \begin{array}{r} 9 \\ 5 \end{array} \begin{array}{r} 5 \\ 9 \end{array}$$

2. Add. Write only the sums:

$$\begin{array}{r} 63 \\ 35 \end{array} \begin{array}{r} 52 \\ 36 \end{array} \begin{array}{r} \$36 \\ 42 \end{array} \begin{array}{r} 44 \\ 53 \end{array} \begin{array}{r} \$22 \\ 57 \end{array} \begin{array}{r} \$.52 \\ .44 \end{array} \begin{array}{r} \$.89 \\ .10 \end{array}$$

$$\begin{array}{r} 54 \\ 90 \end{array} \begin{array}{r} \$74 \\ 92 \end{array} \begin{array}{r} 87 \\ 72 \end{array} \begin{array}{r} \$55 \\ 82 \end{array} \begin{array}{r} 80 \\ 92 \end{array} \begin{array}{r} \$.98 \\ .70 \end{array} \begin{array}{r} \$.30 \\ .90 \end{array}$$

3. Copy these columns, and add:

$$\begin{array}{r} 1 \\ 3 \\ 1 \end{array} \begin{array}{r} 2 \\ 2 \\ 5 \end{array} \begin{array}{r} 0 \\ 7 \\ 1 \end{array} \begin{array}{r} 5 \\ 0 \\ 0 \end{array} \begin{array}{r} 2 \\ 1 \\ 3 \end{array} \begin{array}{r} 0 \\ 3 \\ 1 \end{array} \begin{array}{r} 2 \\ 0 \\ 3 \end{array} \begin{array}{r} 6 \\ 1 \\ 0 \end{array} \begin{array}{r} 1 \\ 7 \\ 1 \end{array}$$

$$\begin{array}{r} 10 \\ 40 \\ 10 \end{array} \begin{array}{r} 13 \\ 56 \\ 10 \end{array} \begin{array}{r} 71 \\ 10 \\ 18 \end{array} \begin{array}{r} 20 \\ 65 \\ 10 \end{array} \begin{array}{r} 30 \\ 32 \\ 35 \end{array} \begin{array}{r} 34 \\ 25 \\ 20 \end{array} \begin{array}{r} 25 \\ 41 \\ 23 \end{array}$$

A Matching Game

Under letter B, find and read the answer to each question under letter A:

A

B

- | | |
|----------------------------|---------------|
| 1. Twelve things = ? | Three sides |
| 2. A dime = ? | A pint |
| 3. A triangle has? | 12 inches |
| 4. Two halves = ? | A year |
| 5. 7 days = ? | A dozen |
| 6. $\frac{1}{2}$ quart = ? | A quart |
| 7. A dollar = ? | 2 nickels |
| 8. A foot = ? | Four quarters |
| 9. 12 months = ? | A whole |
| 10. 2 pints = ? | A week |

Try to Finish These

- There are _____ feet in a yard.
- A week is _____ days.
- A whole melon has _____ fourths.
- A square has _____ equal sides.
- A wheel is shaped like a _____.
- A quarter dollar equals _____ nickels.

To Find What You Know

Try to give the answers to all of these subtraction examples in 2 minutes:

$$\begin{array}{r} 0 \\ 0 \end{array} \begin{array}{r} 4 \\ 0 \end{array} \begin{array}{r} 3 \\ 1 \end{array} \begin{array}{r} 6 \\ 3 \end{array} \begin{array}{r} 4 \\ 2 \end{array} \begin{array}{r} 10 \\ 6 \end{array} \begin{array}{r} 9 \\ 7 \end{array} \begin{array}{r} 9 \\ 3 \end{array} \begin{array}{r} 11 \\ 7 \end{array} \begin{array}{r} 14 \\ 6 \end{array}$$

$$\begin{array}{r} 1 \\ 0 \end{array} \begin{array}{r} 9 \\ 0 \end{array} \begin{array}{r} 4 \\ 1 \end{array} \begin{array}{r} 8 \\ 7 \end{array} \begin{array}{r} 14 \\ 7 \end{array} \begin{array}{r} 9 \\ 2 \end{array} \begin{array}{r} 11 \\ 4 \end{array} \begin{array}{r} 12 \\ 5 \end{array} \begin{array}{r} 9 \\ 5 \end{array} \begin{array}{r} 13 \\ 9 \end{array}$$

$$\begin{array}{r} 6 \\ 0 \end{array} \begin{array}{r} 4 \\ 4 \end{array} \begin{array}{r} 2 \\ 0 \end{array} \begin{array}{r} 11 \\ 5 \end{array} \begin{array}{r} 4 \\ 3 \end{array} \begin{array}{r} 10 \\ 3 \end{array} \begin{array}{r} 10 \\ 4 \end{array} \begin{array}{r} 16 \\ 8 \end{array} \begin{array}{r} 11 \\ 8 \end{array} \begin{array}{r} 16 \\ 9 \end{array}$$

$$\begin{array}{r} 5 \\ 0 \end{array} \begin{array}{r} 8 \\ 8 \end{array} \begin{array}{r} 9 \\ 1 \end{array} \begin{array}{r} 15 \\ 7 \end{array} \begin{array}{r} 9 \\ 8 \end{array} \begin{array}{r} 8 \\ 3 \end{array} \begin{array}{r} 12 \\ 6 \end{array} \begin{array}{r} 8 \\ 5 \end{array} \begin{array}{r} 10 \\ 7 \end{array} \begin{array}{r} 7 \\ 3 \end{array}$$

$$\begin{array}{r} 3 \\ 3 \end{array} \begin{array}{r} 10 \\ 1 \end{array} \begin{array}{r} 17 \\ 8 \end{array} \begin{array}{r} 9 \\ 6 \end{array} \begin{array}{r} 7 \\ 6 \end{array} \begin{array}{r} 2 \\ 1 \end{array} \begin{array}{r} 12 \\ 7 \end{array} \begin{array}{r} 11 \\ 6 \end{array} \begin{array}{r} 12 \\ 8 \end{array} \begin{array}{r} 10 \\ 8 \end{array}$$

$$\begin{array}{r} 5 \\ 4 \end{array} \begin{array}{r} 1 \\ 1 \end{array} \begin{array}{r} 5 \\ 5 \end{array} \begin{array}{r} 9 \\ 4 \end{array} \begin{array}{r} 13 \\ 5 \end{array} \begin{array}{r} 8 \\ 2 \end{array} \begin{array}{r} 6 \\ 1 \end{array} \begin{array}{r} 12 \\ 9 \end{array} \begin{array}{r} 6 \\ 5 \end{array} \begin{array}{r} 14 \\ 8 \end{array}$$

$$\begin{array}{r} 3 \\ 2 \end{array} \begin{array}{r} 8 \\ 6 \end{array} \begin{array}{r} 13 \\ 4 \end{array} \begin{array}{r} 17 \\ 9 \end{array} \begin{array}{r} 11 \\ 3 \end{array} \begin{array}{r} 9 \\ 9 \end{array} \begin{array}{r} 7 \\ 4 \end{array} \begin{array}{r} 2 \\ 2 \end{array} \begin{array}{r} 11 \\ 9 \end{array} \begin{array}{r} 7 \\ 7 \end{array}$$

$$\begin{array}{r} 7 \\ 1 \end{array} \begin{array}{r} 10 \\ 2 \end{array} \begin{array}{r} 7 \\ 5 \end{array} \begin{array}{r} 13 \\ 7 \end{array} \begin{array}{r} 14 \\ 9 \end{array} \begin{array}{r} 7 \\ 0 \end{array} \begin{array}{r} 6 \\ 6 \end{array} \begin{array}{r} 13 \\ 8 \end{array} \begin{array}{r} 5 \\ 1 \end{array} \begin{array}{r} 13 \\ 6 \end{array}$$

To Find What You Know

1. Now try to give the answers to these subtraction examples in half a minute:

$$\begin{array}{r} 15 \\ 8 \end{array} \begin{array}{r} 14 \\ 5 \end{array} \begin{array}{r} 18 \\ 9 \end{array} \begin{array}{r} 7 \\ 2 \end{array} \begin{array}{r} 6 \\ 4 \end{array} \begin{array}{r} 15 \\ 6 \end{array} \begin{array}{r} 16 \\ 7 \end{array} \begin{array}{r} 12 \\ 3 \end{array} \begin{array}{r} 15 \\ 9 \end{array} \begin{array}{r} 11 \\ 2 \end{array}$$

$$\begin{array}{r} 3 \\ 0 \end{array} \begin{array}{r} 5 \\ 1 \end{array} \begin{array}{r} 12 \\ 4 \end{array} \begin{array}{r} 8 \\ 4 \end{array} \begin{array}{r} 5 \\ 3 \end{array} \begin{array}{r} 8 \\ 0 \end{array} \begin{array}{r} 10 \\ 5 \end{array} \begin{array}{r} 8 \\ 1 \end{array} \begin{array}{r} 10 \\ 9 \end{array} \begin{array}{r} 5 \\ 2 \end{array}$$

2. Subtract. Write only the answers:

$$\begin{array}{r} 98 \\ 63 \end{array} \begin{array}{r} 95 \\ 55 \end{array} \begin{array}{r} \$89 \\ 53 \end{array} \begin{array}{r} 90 \\ 80 \end{array} \begin{array}{r} \$79 \\ 37 \end{array} \begin{array}{r} 76 \\ 54 \end{array} \begin{array}{r} \$.69 \\ .30 \end{array}$$

$$\begin{array}{r} 99 \\ 24 \end{array} \begin{array}{r} \$58 \\ 26 \end{array} \begin{array}{r} 65 \\ 53 \end{array} \begin{array}{r} \$.44 \\ .32 \end{array} \begin{array}{r} 86 \\ 42 \end{array} \begin{array}{r} \$63 \\ 2 \end{array} \begin{array}{r} 77 \\ 24 \end{array}$$

$$\begin{array}{r} 92 \\ 62 \end{array} \begin{array}{r} 92 \\ 81 \end{array} \begin{array}{r} 80 \\ 70 \end{array} \begin{array}{r} 99 \\ 96 \end{array} \begin{array}{r} 78 \\ 3 \end{array} \begin{array}{r} 92 \\ 50 \end{array} \begin{array}{r} 88 \\ 28 \end{array}$$

3. Clara weighs 45 pounds and Nan 58 pounds. What is the difference between their weights?

4. There are 11 words that Fred has missed in spelling lessons. Yesterday he spelled 8 of them correctly. He must study _____ of them again.

What Numbers Were Left Out?

1. 2, 4, 6, __, 10, 12, __, 16, __, __.
2. 187, 188, 189, __, __, __, 193.
3. 30, 40, 50, __, __, 80, __, __, __.
4. 85, 90, 95, __, 105, __, 115, __.
5. 400, 500, 600, __, __, __, 1000.

Fill the Blanks with "Add" or "Subtract"

6. To find "How many are left?" I should ____.
7. If I am asked the question, "How many altogether?" I must ____ to find out.
8. "What is the sum?" tells me to ____.
9. When I find the difference between two numbers, I ____.
10. To find the total score I must ____.
11. To find "How many more are needed?" I should ____ the smaller number from the larger number.
12. To find "How many less?" I ____.
13. To find "How many fewer?" I should ____.

Review Questions

Would you ask for pounds, quarts, pints, dozens, or yards if you were buying:

- | | | |
|------------|----------|------------|
| ice cream? | cookies? | bananas? |
| cloth? | milk? | sugar? |
| butter? | oranges? | beefsteak? |

Which Is More?

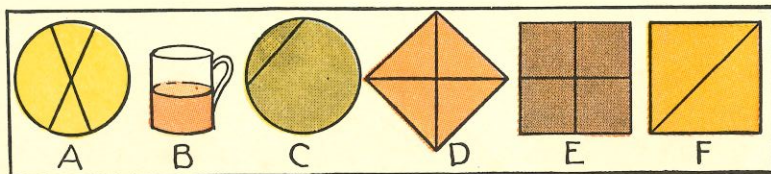
Number the answers as you write them:

1. A yard or a foot?
2. A pint or a quart?
3. A week or a month?
4. A half or a fourth?
5. Two dimes or a quarter?
6. A foot or 14 inches?

Which Is Less?

7. One quart or three pints?
8. Ten days or a week?
9. Ten or a dozen?
10. A year or six months?
11. Five nickels or a half dollar?

To Find What You Know



1. Which of these pictures show halves?
2. Which show fourths?
3. Draw a circle. Mark it into halves.
4. Draw a square. Mark it into quarters.



5. Each part is one _____ of the melon.
6. A cake cut into fourths, has _____ equal parts.

7. $1 = \frac{?}{2}$. $\frac{4}{4} = \text{---}$. $\frac{2}{4} = \frac{?}{2}$.

8. If you cut anything into four equal parts, each part will be _____.

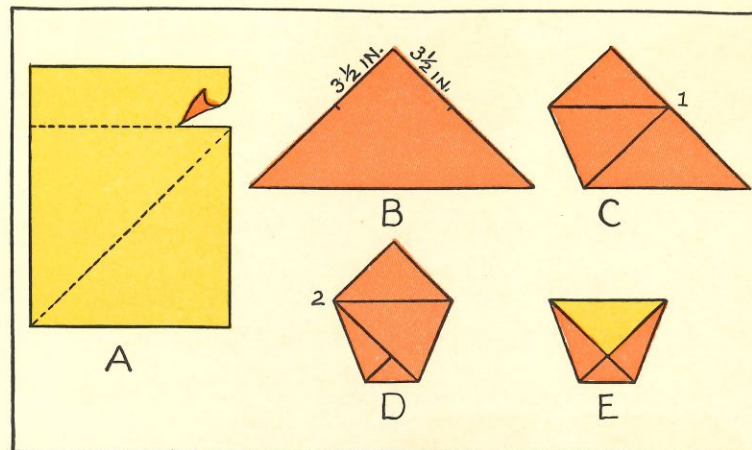
9. If you cut anything into two equal parts, each part will be _____.

10. One-half quart is a _____.

11. A nickel buys $\frac{1}{2}$ as much as a _____.

12. A quarter buys _____ as much as 50¢.

Making a Paper Cup



Get a piece of clean paper that is $8\frac{1}{2}$ (eight and one-half) inches wide. Cut a square from it, as shown in picture A.

What shape is the folded square in B? Lay it on your desk as shown in B.

From the upper corner, measure along each edge $3\frac{1}{2}$ inches. Put dots as in B.

Fold the left point over to dot 1.

Fold the right point to the other dot.

Fold down the upper corners, one to one side of the cup and one to the other.

How To Make Change

Andy helps his brother sell magazines at 5¢ each, and papers at 3¢ each.

1. Joe gave Andy 10¢ for 1 magazine. His change was ____ ¢.

2. A girl gave Andy a dime and asked for a paper. He gave her the paper and change of ____ cents as he said, "5 cents," and ____ nickel as he said, "10 cents."

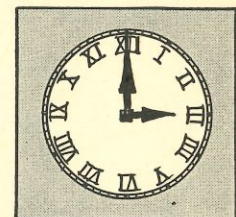
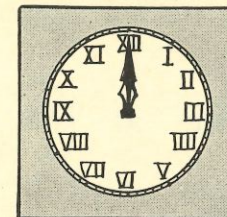
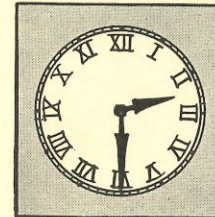
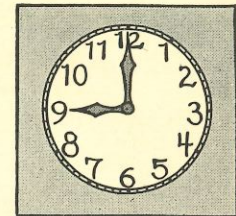
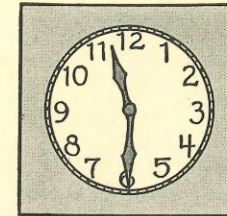
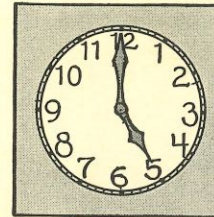
3. A man took a magazine and gave Andy a quarter. Andy remembered that a quarter is equal to 25 cents. He said, "The magazine is 5 cents." Then as he handed the man a nickel at a time, Andy said, "Ten, fifteen, twenty, twenty-five." How many nickels did Andy give the man?

4. In what other ways could Andy have made change for that man?

5. Mr. Fay gave Andy a quarter and asked for a magazine and a paper. Play you are Andy and show what he may have done and said.

To Find What You Know

1. What time does each clock face show?



2. Noon is at ____ o'clock.

3. Name the days of the week.

4. The day before Sunday is ____.

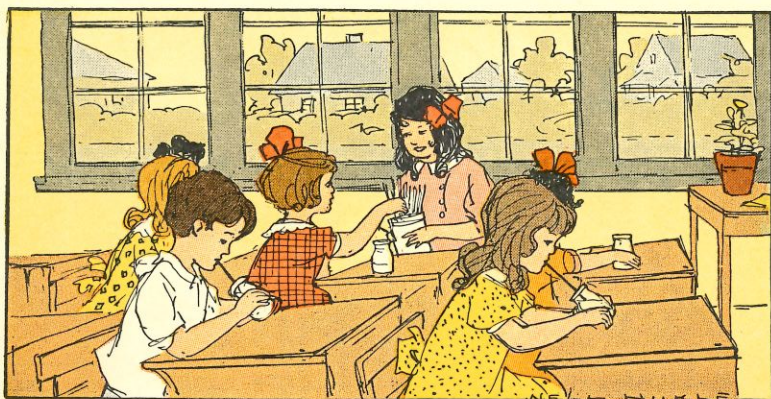
5. The fifth month is ____.

6. The month before May is ____.

7. After September comes ____.

8. The four seasons are ____.

9. The summer months are ____.



Each morning at  we drink our milk.

Jane said, "These are half-pint bottles. Each one holds just a glassful. I measured some of them at home."

Measure to see how many half-pints there are in a pint. In a quart.

Tom wants to drink a quart of milk, or ____ glassfuls each day.

In a quart of milk there are ____ pints, or ____ half-pints.

A pint of milk weighs about a pound.



Our assembly began at  sharp.

At  we went back to our rooms.

Our second grade class invited 32 first grade and 45 third grade children, or ____ children in all.

Our play was "Hansel and Gretel." The actors were a mother, father, two children, and a witch. ____ children were needed to take these parts.

Fourteen gingerbread girls and 15 gingerbread boys gave a dance. There were ____ children in the dance.

To Find What You Know

1. Joe rode on the train from 7 o'clock in the morning until noon. "I was on the train for ____ hours," he said.

2. At a picnic 25 of the 38 children went in swimming. All of the others, or ____ children, played games.

3. Flora is making curtains for her doll's house. She needs 13 inches of cloth for one window, 24 inches for one, and 10 inches for another. In all she needs ____ inches of cloth.

4. A half dollar is ____ ¢ less than \$.75.

5. A 5¢ ice cream cone, a 3¢ toy, and a 5¢ candy bar cost ____ ¢ altogether.

6. A dozen cookies are ____ more than 9.

7. Father paid \$.84 for his ticket and \$.42 for my ticket. Both cost \$ ____.

8. Frances has \$24 to buy a bicycle which costs \$29. She needs \$ ____ more.

9. The difference between 30 and 50 is ____.

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